L Number	Hits	Search Text	DB	Time stamp
1	191	urotensin	USPAT;	2003/03/10 08:49
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
2	131449	mammal\$	USPAT;	2003/03/10 08:49
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
3	114	urotensin and mammal\$	USPAT;	2003/03/10 08:49
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
4	39860	hypertens\$	USPAT;	2003/03/10 08:49
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
5	70	(urotensin and mammal\$) and hypertens\$	USPAT;	2003/03/10 08:54
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
6	95	urotensin adj II	USPAT;	2003/03/10 08:54
,			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
7	61	hypertens\$ and (urotensin adj II)	USPAT;	2003/03/10 09:05
			US-PGPUB;	
E .			EPO; JPO;	
			DERWENT	
8	11949	neurodegen\$	USPAT;	2003/03/10 09:05
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
9	39	(urotensin adj II) and neurodegen\$	USPAT;	2003/03/10 09:05
			US-PGPUB;	
	į. 		EPO; JPO;	
			DERWENT	

(FILE 'HOME' ENTERED AT 09:12:47 ON 10 MAR 2003)

5 S L14 NOT PY>1998

L15

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE, CANCERLIT' ENTERED AT 09:13:04 ON 10 MAR 2003 879 S UROTENSIN II L16 S NEURODGEN? L2L3 52983 S NEURODEGEN? 1 S L1 AND L3 L4L5 2947506 S NEURO? L6 379 S L1 AND L5 L7 7240298 S DISEASE L8 236783 S TRAUMA 37 S L6 AND L7 L9 L10 1 S L6 AND L8 L1131 DUP REM L9 (6 DUPLICATES REMOVED) 1061050 S ANTAGONIST? L12 L13 113 S L1 AND L12 L14 67 DUP REM L13 (46 DUPLICATES REMOVED)

<u> </u>	<u>Site Map</u>	Search ExPASy	Contact us	Swiss-Prot
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[General] [Name and origin] [References] [Comments] [Cross-references] [Keywords] [Features] [Sequence] [Tools]

Note: most headings are clickable, even if they don't appear as links. They link to the user manual or other documents.

General information about the e	
Entry name	UR2_MOUSE
Primary accession number	Q9QZQ3
Secondary accession numbers	None
Entered in Swiss-Prot in	Release 40, October 2001
Sequence was last modified in	Release 40, October 2001
Annotations were last modified in	Release 41, February 2003
Name and origin of the protein	
Protein name	Urotensin II [Precursor]
Synonyms	U-II
	-UII
Gene name	UTS2
From	Mus musculus (Mouse) [TaxID: 10090]
Taxonomy	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;
• • • • • • • • • • • • • • • • • • •	Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

[1] SEQUENCE FROM NUCLEIC ACID.

TISSUE=Spinal cord;

MEDLINE=99416011; PubMed=10486557; [NCBI, ExPASy, EBI, Israel, Japan]

Coulouarn Y., Jegou S., Tostivint H., Vaudry H., Lihrmann I.;

"Cloning, sequence analysis and tissue distribution of the mouse and rat urotensin II precursors."; FEBS Lett. 457:28-32(1999).

Comments

- FUNCTION: HIGHLY POTENT VASOCONSTRICTOR (BY SIMILARITY).
- SUBCELLULAR LOCATION: Secreted.
- TISSUE SPECIFICITY: BRAIN-SPECIFIC. PREDOMINANTLY EXPRESSED IN MOTONEURONS OF THE BRAINSTEM AND SPINAL CORD.
- SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.

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ProDom	[Domain struct	ure / List of seq. sharing at least 1 domain	<u>1</u>].		
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ModBase	<u>Q9QZQ3</u> .				
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Keywords					
Hormone; Cleavage or	ı pair of basic	residues; Signal.			
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CRC64: F96486195137F7F4 [This is a Length: 123 AA [This is the length | Molecular weight: 13625 Da [This is of the unprocessed precursor] the MW of the unprocessed precursor] checksum on the sequence] 60 50 20 30 MDRVPFCCLL FIGLLNPLLS LPVTDTGERT LQLPVLEEDA LRALEELERM ALLQTLRQTM 70 80 100 110 120 90 GTEAGESPGE AGPSTETPTP RGSMRKAFAG QNSNTVLSRL LARTRKQHKQ HGAAPECFWK

YCI

Q9QZQ3 in <u>FASTA</u> format

<u>View entry in original Swiss-Prot format</u> <u>View entry in raw text format (no links)</u> <u>Report form for errors/updates in this Swiss-Prot entry</u>

BLAST

BLAST submission on ExPASy/SIB or at NCBI (USA)



Sequence analysis tools: <u>ProtParam</u>, <u>ProtScale</u>, <u>Compute</u> <u>pl/Mw</u>, <u>PeptideMass</u>, <u>PeptideCutter</u>, <u>Dotlet</u> (Java)



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[General] [Name and origin] [References] [Comments] [Cross-references] [Keywords] [Features] [Sequence] [Tools]

Note: most headings are clickable, even if they don't appear as links. They link to the user manual or other documents.

General information about the e	many and the second
Entry name	UR2_RAT
Primary accession number	Q9QZQ4
Secondary accession numbers	None
Entered in Swiss-Prot in	Release 40, October 2001
Sequence was last modified in	Release 40, October 2001
Annotations were last modified in	Release 40, October 2001
Name and origin of the protein	
Protein name	Urotensin II [Precursor]
Synonyms	U-II
	UII
Gene name	· UTS2
From	Rattus norvegicus (Rat) [TaxID: 10116]
Taxonomy	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;
• •	Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
References	

[1] SEQUENCE FROM NUCLEIC ACID.

TISSUE=Spinal cord;

MEDLINE=99416011; PubMed=10486557; [NCBI, ExPASy, EBI, Israel, Japan]

Coulouarn Y., Jegou S., Tostivint H., Vaudry H., Lihrmann I.;

"Cloning, sequence analysis and tissue distribution of the mouse and rat urotensin II precursors."; FEBS Lett. 457:28-32(1999).

Comments

- FUNCTION: HIGHLY POTENT VASOCONSTRICTOR (BY SIMILARITY).
- SUBCELLULAR LOCATION: Secreted.
- TISSUE SPECIFICITY: Brain-specific.
- SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.

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BLAST

BLAST submission on ExPASy/SIB or at NCBI (USA)



Sequence analysis tools: <u>ProtParam</u>, <u>ProtScale</u>, <u>Compute</u> <u>pI/Mw</u>, <u>PeptideMass</u>, <u>PeptideCutter</u>, <u>Dotlet</u> (Java)



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[General] [Name and origin] [References] [Comments] [Cross-references] [Keywords] [Features] [Sequence] [Tools]

Note: most headings are clickable, even if they don't appear as links. They link to the user manual or other documents.

General information about the c	mitry
Entry name	UR2_HUMAN
Primary accession number	O95399
Secondary accession number	Q9UKP7
Entered in Swiss-Prot in	Release 40, October 2001
Sequence was last modified in	Release 40, October 2001
Annotations were last modified in	Release 41, February 2003
Name and origin of the protein	
Protein name	Urotensin II [Precursor]
Synonyms	U-II
	UII
Gene name	UTS2
From	Homo sapiens (Human) [TaxID: 9606]
Taxonomy	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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[1] SEQUENCE FROM NUCLEIC ACID

TISSUE=Spinal cord;

MEDLINE=99080095; PubMed=9861051; [NCBI, ExPASy, EBI, Israel, Japan]

Coulouarn Y., Lihrmann I., Jegou S., Anouar Y., Tostivint H., Beauvillain J.C., Conlon J.M., Bern H.A., Vaudry H.;

"Cloning of the cDNA encoding the urotensin II precursor in frog and human reveals intense expression of the urotensin Il gene in motoneurons of the spinal cord.";

Proc. Natl. Acad. Sci. U.S.A. 95:15803-15808(1998).

[2] SEQUENCE FROM NUCLEIC ACID.

MEDLINE=99427933; PubMed=10499587; [NCBI, ExPASy, EBI, Israel, Japan]

Ames R.S., Sarau H.M., Chambers J.K., Willette R.N., Aiyar N.V., Romanic A.M., Louden C.S., Foley J.J., Sauermelch C.F., Coatney R.W., Ao Z., Disa J., Holmes S.D., Stadel J.M., Martin J.D., Liu W.-S., Glover G.I., Wilson S., McNulty D.E., Ellis C.E., Elshourbagy N.A., Shabon U., Trill J.J., Hay D.W.P., Ohlstein E.H., Bergsma D.J., Douglas S.A.; "Human urotensin-II is a potent vasoconstrictor and agonist for the orphan receptor GPR14.";

Nature 401:282-286(1999).

[3] SEQUENCE FROM NUCLEIC ACID.

Pearce A.;

Submitted (DEC-1999) to the EMBL/GenBank/DDBJ databases.

Comments

- FUNCTION: HIGHLY POTENT VASOCONSTRICTOR.
- SUBCELLULAR LOCATION: Secreted.
- TISSUE SPECIFICITY: Brain-specific.
- SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.

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						O95399 in <u>FASTA</u>
						<u>format</u>

BLAST

BLAST submission on ExPASy/SIB or at NCBI (USA)



Sequence analysis tools: <u>ProtParam</u>, <u>ProtScale</u>, <u>Compute</u> <u>pI/Mw</u>, <u>PeptideMass</u>, <u>PeptideCutter</u>, <u>Dotlet</u> (Java)



ScanProsite, MotifScan



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P49684

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[General] [Name and origin] [References] [Comments] [Cross-references] [Keywords] [Features] [Sequence] [Tools]

General information about the c	ey don't appear as links. They link to the <u>user manual</u> or <u>other documents</u> .
Entry name	UR2R RAT
Primary accession number	P49684
Secondary accession number	P48041
Entered in Swiss-Prot in	Release 33, February 1996
Sequence was last modified in	Release 38, July 1999
Annotations were last modified in	Release 41, February 2003
Name and origin of the protein	
Protein name	Urotensin II receptor
Synonyms	UR-II-R
	G protein-coupled sensory epithelial neuropeptide-like receptor SENR
Gene name	GPR14
From	Rattus norvegicus (Rat) [TaxID: 10116]
Taxonomy	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
References	
[1] SEQUENCE FROM NUCLEIO	CACID.
	d=8666380; [NCBI, ExPASy, EBI, Israel, Japan]
Marchese A., Heiber M., Nguye	en T., Heng H.H.Q., Saldivia V.R., Cheng R., Murphy P.M., Tsui LC., Shi X., Gregor

P., George S.R., O'Dowd B.F., Docherty J.M.;

"Cloning and chromosomal mapping of three novel genes, GPR9, GPR10, and GPR14, encoding receptors related to interleukin 8, neuropeptide Y, and somatostatin receptors."; Genomics 29:335-344(1995).

[2] SEQUENCE FROM NUCLEIC ACID.

TISSUE=Circumvallate papillae;

STRAIN=Sprague-Dawley;

MEDLINE=95251679; PubMed=7733947; [NCBI, ExPASy, EBI, Israel, Japan]

Tal M., Ammar D.A., Karpuj M., Krizhanovsky V., Naim M., Thompson D.A.;

"A novel putative neuropeptide receptor expressed in neural tissue, including sensory epithelia."; Biochem. Biophys. Res. Commun. 209:752-759(1995).

[3] SEQUENCE FROM NUCLEIC ACID.

TISSUE=<u>Urinary bladder</u>;

STRAIN=Wistar;

Suga H., Takao K.;

"Expression of the rat SENR in the urinary bladder tissues.";

Submitted (MAR-1998) to the EMBL/GenBank/DDBJ databases.

[4] SEQUENCE FROM NUCLEIC ACID.

TISSUE=Pheochromocytoma;

Liu H., Zou M., Suga H., Takao K.;

"The SENR/GPR14 expresses in rat pheochromocytoma PC 12 cells.";

Submitted (JUL-1999) to the EMBL/GenBank/DDBJ databases.

Comments

- FUNCTION: HIGH AFINITY RECEPTOR FOR UROTENSIN II. THE ACTIVITY OF THIS RECEPTOR IS MEDIATED BY A G-PROTEIN THAT ACTIVATE A PHOSPHATIDYLINOSITOL-CALCIUM SECOND MESSENGER SYSTEM (BY SIMILARITY).
- SUBCELLULAR LOCATION: Integral membrane protein.
- TISSUE SPECIFICITY: PREFERENTIALLY EXPRESSED IN NEURAL AND SENSORY TISSUES.
- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.

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Cross-references	
EMBL	U32673; AAC52593.1; [EMBL / GenBank / DDBJ] [CoDingSequence] U23483; AAA80111.1; [EMBL / GenBank / DDBJ] [CoDingSequence] AB012210; BAA25251.1; [EMBL / GenBank / DDBJ] [CoDingSequence] AB029611; BAA82357.1; [EMBL / GenBank / DDBJ] [CoDingSequence]
InterPro	IPR000276; GPCR_Rhodpsn. Graphical view of domain structure.
Pfam	<u>PF00001;</u> 7tm_1; 1.
PRINTS	PR00237; GPCRRHODOPSN.
PROSITE	<u>PS00237</u> ; G_PROTEIN_RECEP_F1_1; 1. <u>PS50262</u> ; G_PROTEIN_RECEP_F1_2; 1.
GPCRDB	P49684; UR2R_RAT.
GPCRDB-Snakes	<u>P49684</u> .
ProDom	[Domain structure / List of seq. sharing at least 1 domain].
BLOCKS	P49684.
ProtoNet	<u>P49684</u> .
ProtoMap	<u>P49684</u> .
PRESAGE	<u>P49684</u> .
DIP	P49684.
ModBase	<u>P49684</u> .
SWISS-2DPAGE	Get region on 2D PAGE.
Kaywords	
G-protein coupled	receptor; Transmembrane; Glycoprotein.
Features	

Key	From	То	Length	Description	1	
DOMAIN	1	54	54	EXTRACELLULAR (POTENTIAL).	:	ı
TRANSMEM	55	77	23	1 (POTENTIAL).	:	
DOMAIN	78	87	10	CYTOPLASMIC (POTENTIAL).	1	
TRANSMEM	88	113	26	2 (POTENTIAL).		
DOMAIN	114	124	11	EXTRACELLULAR (POTENTIAL).		
TRANSMEM	125	146	22	3 (POTENTIAL).		
DOMAIN	147	167	21	CYTOPLASMIC (POTENTIAL).	!	
TRANSMEM	168	186	19	4 (POTENTIAL).		
DOMAIN	187	209	23	EXTRACELLULAR (POTENTIAL).		Feature aligner
TRANSMEM	210	232	23	5 (POTENTIAL).	1, 32, 3, 2, 2	**************************************
DOMAIN	233	258	26	CYTOPLASMIC (POTENTIAL).	277 - 366 23 2 277 - 366 23 2 36 24 4 4 3	T
TRANSMEM	259	284	26	6 (POTENTIAL).	Φ . φ .	Feature table
DOMAIN	285	299	15	EXTRACELLULAR (POTENTIAL).		<u>viewer</u>
TRANSMEM	300	321	22	7 (POTENTIAL).		<u> </u>
DOMAIN	322	386	65	CYTOPLASMIC (POTENTIAL).		1
CARBOHYD	29	2,9		N-LINKED (GLCNAC)		
1				(POTENTIAL).		
CARBOHYD	33	33		N-LINKED (GLCNAC)		
				(POTENTIAL).		
DISULFID	123	199		BY SIMILARITY.		
CONFLICT	315	315		$F \rightarrow L (IN REF. 1).$		

ength: 386 AA	Molecular wei	ght: 42707 Da	CRC64: FA4E9	5CC6A4CA27C	[This is a check	sum on the sequence]
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370 1	088					
SLSSSSQQA	TETLMLSPVP	RNGALL				P49684 in <u>FASTA</u>

BLAST

BLAST submission on ExPASy/SIB

or at NCBI (USA)



Sequence analysis tools: <u>ProtParam, ProtScale, Compute</u> <u>pl/Mw, PeptideMass, PeptideCutter, Dotlet</u> (Java)



ScanProsite, MotifScan



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[General] [Name and origin] [References] [Comments] [Cross-references] [Keywords] [Features] [Sequence] [Tools]

Note: most headings are clickable, even if they don't appear as links. They link to the user manual or other documents.

General information about the c	many
Entry name	UR2R_HUMAN
Primary accession number	Q9UKP6
Secondary accession numbers	None
Entered in Swiss-Prot in	Release 40, October 2001
Sequence was last modified in	Release 40, October 2001
Annotations were last modified in	Release 40, October 2001
Name and origin of the protein	
Protein name	Urotensin II receptor
Synonym	UR-II-R
Gene name	GPR14
From	Homo sapiens (Human) [TaxID: 9606]
Taxonomy	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
References	e de mer de la compansa del compansa del compansa de la compansa d

References

[1] SEQUENCE FROM NUCLEIC ACID.

MEDLINE=99427933; PubMed=10499587; [NCBI, ExPASy, EBI, Israel, Japan]

Ames R.S., Sarau H.M., Chambers J.K., Willette R.N., Aiyar N.V., Romanic A.M., Louden C.S., Foley J.J., Sauermelch C.F., Coatney R.W., Ao Z., Disa J., Holmes S.D., Stadel J.M., Martin J.D., Liu W.-S., Glover G.I., Wilson S., McNulty D.E., Ellis C.E., Elshourbagy N.A., Shabon U., Trill J.J., Hay D.W.P., Ohlstein E.H., Bergsma D.J., Douglas S.A.; "Human urotensin-II is a potent vasoconstrictor and agonist for the orphan receptor GPR14."; Nature 401:282-286(1999).

Comments

- *FUNCTION*: HIGH AFINITY RECEPTOR FOR UROTENSIN II. THE ACTIVITY OF THIS RECEPTOR IS MEDIATED BY A G-PROTEIN THAT ACTIVATE A PHOSPHATIDYLINOSITOL-CALCIUM SECOND MESSENGER SYSTEM.
- SUBCELLULAR LOCATION: Integral membrane protein.
- TISSUE SPECIFICITY: MOST ABUNDANT EXPRESSION IN THE HEART AND PANCREAS.
- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.

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EMBL	AF140)631; AAD5	5578.1; [EMBL / GenBank / DDBJ] [CoDings	Sequence]
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Key	From To	Length 54	Description	
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Key DOMAIN TRANSMEM DOMAIN	From To 1 54 55 77 78 87 88 113 114 124 125 146 147 167 168 186 187 209 210 232 233 258 259 284 285 297 298 318 319 389	Length 54 23 10 26 11 22 21 19 23 23 26 26 13 26 13 21 71	Description EXTRACELLULAR (POTENTIAL). 1 (POTENTIAL). CYTOPLASMIC (POTENTIAL). 2 (POTENTIAL). EXTRACELLULAR (POTENTIAL). 3 (POTENTIAL). CYTOPLASMIC (POTENTIAL). 4 (POTENTIAL). EXTRACELLULAR (POTENTIAL). 5 (POTENTIAL). CYTOPLASMIC (POTENTIAL). 6 (POTENTIAL). EXTRACELLULAR (POTENTIAL). 6 (POTENTIAL). EXTRACELLULAR (POTENTIAL).	
Key DOMAIN TRANSMEM TRANSMEM	From To 1 54 55 77 78 87 88 113 114 124 125 146 147 167 168 186 187 209 210 232 233 258 259 284 285 297 298 318	Length 54 23 10 26 11 22 21 19 23 23 26 26 13 26 13 21 71	Description EXTRACELLULAR (POTENTIAL). 1 (POTENTIAL). CYTOPLASMIC (POTENTIAL). 2 (POTENTIAL). EXTRACELLULAR (POTENTIAL). 3 (POTENTIAL). CYTOPLASMIC (POTENTIAL). 4 (POTENTIAL). EXTRACELLULAR (POTENTIAL). 5 (POTENTIAL). CYTOPLASMIC (POTENTIAL). 6 (POTENTIAL). EXTRACELLULAR (POTENTIAL). 6 (POTENTIAL). EXTRACELLULAR (POTENTIAL). 7 (POTENTIAL).	
Key DOMAIN TRANSMEM DOMAIN	From To 1 54 55 77 78 87 88 113 114 124 125 146 147 167 168 186 187 209 210 232 233 258 259 284 285 297 298 318 319 389	Length 54 23 10 26 11 22 21 19 23 23 26 26 13 26 13 21 71	Description EXTRACELLULAR (POTENTIAL). 1 (POTENTIAL). CYTOPLASMIC (POTENTIAL). 2 (POTENTIAL). EXTRACELLULAR (POTENTIAL). 3 (POTENTIAL). CYTOPLASMIC (POTENTIAL). 4 (POTENTIAL). EXTRACELLULAR (POTENTIAL). 5 (POTENTIAL). CYTOPLASMIC (POTENTIAL). 6 (POTENTIAL). CYTOPLASMIC (POTENTIAL). 6 (POTENTIAL). CYTOPLASMIC (POTENTIAL). 7 (POTENTIAL). CYTOPLASMIC (POTENTIAL). N-LINKED (GLCNAC)	
Key DOMAIN TRANSMEM DOMAIN CARBOHYD	From To	Length 54 23 10 26 11 22 21 19 23 23 26 26 13 26 13 21 71	Description EXTRACELLULAR (POTENTIAL). 1 (POTENTIAL). CYTOPLASMIC (POTENTIAL). 2 (POTENTIAL). EXTRACELLULAR (POTENTIAL). 3 (POTENTIAL). CYTOPLASMIC (POTENTIAL). 4 (POTENTIAL). EXTRACELLULAR (POTENTIAL). 5 (POTENTIAL). CYTOPLASMIC (POTENTIAL). 6 (POTENTIAL). CYTOPLASMIC (POTENTIAL). 6 (POTENTIAL). CYTOPLASMIC (POTENTIAL). 7 (POTENTIAL). CYTOPLASMIC (POTENTIAL). N-LINKED (GLCNAC) (POTENTIAL). N-LINKED (GLCNAC)	

Length: 389 AA Molecular weight: 42130 Da CRC64: 6D6A88DBF78400CE [This is a checksum on the sequence]

10	20	30	40	50	60	The second secon
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MGVVGVVGNA	YTLVVTCRSL	RAVASMYVYV	VNLALADLLY	LLSIPFIVAT	YVTKEWHFGD	
130	140	150	160	170	180	
VGCRVLFGLD	FLTMHASIFT	LTVMSSERYA	AVLRPLDTVQ	RPKGYRKLLA	LGTWLLALLL	
190	200	210	220	230	240	
TLPVMLAMRL	VRRGPKSLCL	PAWGPRAHRA	YLTLLFATSI	AGPGLLIGLL	YARLARAYRR	
250 I	260	270 	280 I	290	300 I	
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310	320	330	340	350	360 I	
TCLTYGNSCA	NPFLYTLLTR	NYRDHLRGRV	RGPGSGGGRG	PVPSLQPRAR	FQRCSGRSLS	
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**************************************						Q9UKP6 in <u>FASTA</u> <u>format</u>

BLAST

BLAST submission on ExPASy/SIB or at NCBI (USA)



Sequence analysis tools: <u>ProtParam</u>, <u>ProtScale</u>, <u>Compute</u> <u>pI/Mw</u>, <u>PeptideMass</u>, <u>PeptideCutter</u>, <u>Dotlet</u> (Java)



ScanProsite, MotifScan



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P49220

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[General] [Name and origin] [References] [Comments] [Cross-references] [Keywords] [Features] [Sequence] [Tools]

Note: most headings are clickable, even if they don't appear as links. They link to the user manual or other documents.

General information about the c	
Entry name	UR2R_BOVIN
Primary accession number	P49220
Secondary accession numbers	None
Entered in Swiss-Prot in	Release 33, February 1996
Sequence was last modified in	Release 33, February 1996
Annotations were last modified in	Release 40, October 2001
Name and origin of the protein	
Protein name	Urotensin II receptor [Fragment]
Synonyms	UR-II-R
	G protein-coupled sensory epithelial neuropeptide-like receptor
	SENR
Gene name	GPR14
From	Bos taurus (Bovine) [TaxID: 9913]
Taxonomy	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea; Bovidae; Bovinae; Bos.
References	The state of the s

[1] SEQUENCE FROM NUCLEIC ACID.

TISSUE=Retina;

MEDLINE=95251679; PubMed=7733947; [NCBI, ExPASy, EBI, Israel, Japan]

Tal M., Ammar D.A., Karpuj M., Krizhanovsky V., Naim M., Thompson D.A.;

"A novel putative neuropeptide receptor expressed in neural tissue, including sensory epithelia."; Biochem. Biophys. Res. Commun. 209:752-759(1995).

Comments

- FUNCTION: HIGH AFINITY RECEPTOR FOR UROTENSIN II. THE ACTIVITY OF THIS RECEPTOR IS MEDIATED BY A G-PROTEIN THAT ACTIVATE A PHOSPHATIDYLINOSITOL-CALCIUM SECOND MESSENGER SYSTEM (BY SIMILARITY).
- SUBCELLULAR LOCATION: Integral membrane protein.
- TISSUE SPECIFICITY: EXPRESSED IN NEURAL TISSUE, INCLUDING SENSORY EPITHELIA.
- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.

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EMBL U234	U23459; AAC48464.1; [EMBL / GenBank / DDBJ] [CoDingSequence]					
IP'RO	IPR000276; GPCR Rhodpsn.					
InterPro Grap	Graphical view of domain structure.					
Pfam PF00	<u>PF00001</u> ; 7tm_1; 1.					
PRINTS PROC	PR00237; GPCRRHODOPSN.					
PR(3/11 H	PS00237; G_PROTEIN_RECEP_F1_1; PARTIAL. PS50262; G_PROTEIN_RECEP_F1_2; 1.					
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ProtoNet P492	P49220.					
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PRESAGE P49220.						
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[Kawwords						
G-protein coupled receptor; Transmembrane; Glycoprotein.						
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Sequence information						
Length: 215 AA [This is the length of the partial sequence] Molecular weight: 24575 Da [This is CRC64: 97F2D5041D96A624 [This is a checksum on the sequence]						
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	P49220 in <u>FASTA</u> format					

View entry in original Swiss-Prot format View entry in raw text format (no links)

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BLAST

BLAST submission on ExPASy/SIB or at NCBI (USA)



Sequence analysis tools: <u>ProtParam</u>, <u>ProtScale</u>, <u>Compute</u> <u>pI/Mw</u>, <u>PeptideMass</u>, <u>PeptideCutter</u>, <u>Dotlet</u> (Java)



ScanProsite, MotifScan



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